

## REFERENCES

- Ali, T. M., & Hasnain, A. (2015). *Physicochemical, morphological, thermal, pasting, and textural properties of starch acetates*. *Food Reviews International*, 32(2), 161–180. doi:10.1080/87559129.2015.1057842
- Añon M.C., A. Le Bail, and A.E. Leon.(2004). Effect of freezing on dough ingredients. *Handbook of frozen foods*. Marcel Dekker, NY.
- Asghar, A., Anjum, F. M., Butt, M. S., & Hussain, S. (2006). *Shelf Life and Stability Study of Frozen Dough Bread by the Use of Different Hydrophilic Gums*. *International Journal of Food Engineering*, 2(3). doi:10.2202/1556-3758.1040
- Bárcenas, M. E., Haros, M., Benedito, C., & Rosell, C. M. (2003). Effect of freezing and frozen storage on the staling of par-baked bread. *Food Research International*, 36(8), 863–869.
- Baeza, R., Carrera Sanchez, C., Pilosof, A. M. R., & Rodríguez Patino, J. M. (2004). Interfacial and foaming properties of propylene glycol alginates. Effect of degree of esterification and molecular weight. *Colloids and Surfaces B: Biointerfaces*, 36, 139e145.
- Balaji, N., 1991. Modeling of transient temperature distribution during bread baking by finite difference analysis. B.Tech Thesis, IIT, Kharagpur, India.
- Berglund, P.; Shelton, D.; Freeman, T. (1991). Frozen bread dough ultrastructure as affected by the duration of frozen storage and freeze-thaw cycles. *Cereal Chem.* 68(1), 105–107.
- Biswal, D. R., & Singh, R. P. (2004). Characterization of carboxymethyl cellulose and a polyacrylamide graft copolymer. *Carbohydrate Polymers*, 57(4), 379e387.
- Bhattacharya, M., Langstaff, T. M., & Berzonsky, W. A. (2003). *Effect of frozen storage and freeze-thaw cycles on the rheological and baking properties of frozen doughs*. *Food Research International*, 36(4), 365–372. doi:10.1016/s0963-9969(02)00228-4
- Bread - Indonesia: Statista Market Forecast. (n.d.). Retrieved April 2, 2020, from <https://www.statista.com/outlook/40050100/120/bread/indonesia>
- Casey, G., and Foy, J. 1995. Yeast performance in frozen doughs and strategies for improvement. Pages 19-51 in: *Frozen & Refrigerated Doughs and Batter*. K. Kulp, K. Lorenz, and J. Brummer, eds. Am. Assoc. Cereal Chem.: St. Paul, MN.
- Calvin, O. (2016). *Starch and modified starch in bread making: A review*. *African Journal of Food Science*, 10(12), 344–351. doi:10.5897/ajfs2016.1481
- Collar, C., Andreu, P., Martinez, J. C., & Armero, E. (1999). Optimization of hydrocolloid addition to improve wheat bread dough functionality: a response surface methodology study. *Food Hydrocolloids*, 13(6), 467–475.
- Davidou, S., Le Meste, M., Debever, E., and Bekaert, D. (1996). A contribution to the study of staling of white bread: effect of water and hydrocolloid. *Food Hydrocolloids*, 10, 375-383.

- Decock P.and S. Cappelle. (2005) .Bread technology and sourdough technology. Trends in Food Science & Technology, 16 113-120.
- Draget, K. I. (2000). Alginates. In G. O. Phillips, & P. A. Williams (Eds.), Handbook of hydrocolloids (pp. 379e395). Cambridge: Woodhead Publishing Limited.
- Eliasson, A.C.(2004). *Starch in food: Structure, function, and applications*; CRC Press: London, 22pp
- Farvili N., C.E. Walker, and J. Qarooni. (1997) . The Effects of Protein Content of Flour and Emulsifiers on Tanoor Bread Quality, Journal of Cereal Science, 26 137-143.
- Giannou, V., Kessoglou, V., Tzia, C., 2003. Quality and safety characteristics of bread made from frozen dough. Trends in Food Science and Technology 14 (3), 99–108.
- Guarda, A., Rosell, C. M., Benedito, C., & Galotto, M. J. (2004). Different hydrocolloids as bread improvers and antistaling agents. Food Hydrocolloids, 18(2), 241–247.
- Hadnadev TRD, Dokić LP, Hadnadev MS, Pojić MM, Torbica AM (2014). Rheological and breadmaking properties of wheat flours supplemented with octenyl succinic anhydride-modified waxy maize starches. Food Bioprocess Technol. 7:235-247.
- Hino, A., Takano, H., & Tanaka, Y. (1987). New freeze-tolerant yeast for frozen dough preparations. Cereal Chemistry, 64, 1987.
- Hsu, K.; Hoseney. R.; Seib, S.(1979). Frozen dough. I. Factors affecting the stability of yeasted doughs. Cereal Chem., 56(5), 419–424.
- Inoue, Y., & Bushuk, W. (1991). Studies on frozen dough I. Effects of frozen storage and freeze-thaw cycles on baking rheological properties. Cereal Chemistry, 68(6), 627–631.
- Inoue, Y., & Bushuk, W. (1992). Studies on frozen dough II. Flour quality requirements for bread production from frozen dough. Cereal Chemistry, 69(4), 423–428.
- Kamel, B., & Ponte, J. (1993). Emulsifiers in baking. In B. Kamel, & C. Stauffer (Eds.), Advances in baking technology (pp. 179 – 222). London: Blackie.
- Kenny, S., Wehlre, K., Dennehy, T., & Arendt, K. E. (1999). Correlations fundamental rheology measurements and baking performance of frozen bread dough. Cereal Chemistry, 76(3), 421–425.
- Kline, L.; Sugihara, T. (1968). Factors affecting the stability of the frozen bread dough. I. Prepared by straight dough Method. Baker's Dig. 48(2), 14–22.
- Le Bail, A., Havet, M., Pasco, M. (1998). Influence of the freezing rate and of storage duration on the gassing power of frozen bread dough. International Congress of Refrigeration, Nantes, France. pp. 16–18.
- Le-Bail, A., Nicolitch, C., & Vuillod, C. (2010). Fermented frozen dough: impact of pre-fermentation time and of freezing rate for a pre-fermented frozen dough on final volume of the bread. Food and bioprocess technology, 3(2), 197e203.
- Lu, W., Grant, L.A. (1999). Effects of prolonged storage at freezing temperatures on starch and baking quality of frozen doughs. Cereal Chemistry 76, 656–662.

- Lucas, T., Grenier, A., Quellec, S., Le Bail, A., Davenel, A., (2005). MRI quantification of ice gradients in dough during freezing or thawing process. *Journal of Food Engineering* 71, 98–108.
- Lucas T., Le Ray D., and A. Davenel. (2005). Chilling and freezing of part-baked bread. Part I: An MRI signal analysis, *Jurnal of Food Engineering*, 70 139-149.
- Ma, S., Li, L., Wang, X., Zheng, X., Bian, K., & Bao, Q. (2016). *Effect of mechanically damaged starch from wheat flour on the quality of frozen dough and steamed bread*. *Food Chemistry*, 202, 120–124.doi:10.1016/j.foodchem.2016.01.075
- Mandala, I., Kapetanakou, A., & Kostaropoulos, A. (2008). Physical properties of breads containing hydrocolloids stored at low temperature: II—effect of freezing. *Food Hydrocolloids*, 22(8), 1443–1451.
- Manohar R.S. and P.H. Rao. (1997) .Effect of Mixing Period and Additives on the Rheological Characteristic of Dough and Quality of Biscuits. *Journal of Cereal Science*, 25 197-206.
- Mirmoghtadaie, L.; Kadivar, M.; Shahedi, M. (2009). Effects of cross-linking and acetylation on oat starch properties. *Food Chem.*, 116, 709-713.
- Miyazaki M, Maeda T, Morita N (2004) Starch retrogradation and Wrming of bread containing hydroxypropylated, acetylated and phosphorylated cross-linked tapioca starches for wheat .*Cereal Chem* 82:639–644
- Miyazaki M, Morita N (2005). Effect of heat-moisture treated maize starch on the properties of dough and bread. *Food Res. Int.* 38:369- 376.
- Miyazaki M, Maeda T, Morita N (2008). Bread quality of frozen dough substituted with modified tapioca starches. *Eur. Food Res. Technol.* 227:503-509.
- Moe, S. T., Draget, K. I., Skjåk-Bræk, G., & Smidsrød, O. (1995). Alginates. In A. M. Stephen (Ed.), *Food polysaccharides, and their applications* (pp. 245e286). New York: Marcel Dekker, Inc
- Mondal, A., & Datta, A. K. (2008). Bread baking – A review. *Journal of Food Engineering*, 86(4), 465–474. doi:10.1016/j.jfoodeng.2007.11.014
- Morris, V. J. (1995). Bacterial polysaccharides. In A. M. Stephen (Ed.), *Food polysaccharides, and their applications* (pp. 341e375). New York: Marcel Dekker, Inc.
- Park, E. Y., Jang, S.-B., & Lim, S.-T. (2016). *Effect of fructooligosaccharide and isomalt oligosaccharide addition on baking quality of frozen dough*. *Food Chemistry*, 213, 157–162. doi:10.1016/j.foodchem.2016.06.067
- Peressini, D., Pin, M., & Sensidoni, A. (2011). *Rheology and breadmaking performance of rice-buckwheat batters supplemented with hydrocolloids*. *Food Hydrocolloids*, 25(3), 340–349. doi:10.1016/j.foodhyd.2010.06.012
- Phimolsiripol, Y., Siripatrawan, U., Tulyathan, V., & Cleland, D. J. (2008). *Effects of freezing and temperature fluctuations during frozen storage on frozen dough and bread quality*. *Journal of Food Engineering*, 84(1), 48–56. doi:10.1016/j.jfoodeng.2007.04.016

- Ribotta, P., Leo n, A., & An o n, M. C. (2001). Effect of freezing and frozen storage of doughs on bread quality. *Journal of Agricultural Food Chemistry*, 49, 913–918.
- Ribotta, P. D., Pérez, G. T., León, A. E., & Añón, M. C. (2004). *Effect of emulsifier and guar gum on microstructural, rheological and baking performance of frozen bread dough*. *Food Hydrocolloids*, 18(2), 305–313. doi:10.1016/s0268-005x(03)00086-9
- Rosell, C.M., Rojas, J.A., and Benedito de Barber, C. (2001a). Influence of hydrocolloids on dough rheology and bread quality. *Food Hydrocolloids*, 15, 75-81.
- Rosell, C.M., Haros, M., Escriv a, C., and Benedito De Barber, C. (2001b). Experimental approach to optimize the use of alpha-amylases in breadmaking. *J. Agric. Food Chem.*, 49, 2973-2977.
- Sajilata, M.; Singhal, R.S. (2005).Specialty starches for snack foods. *Carbohyd. Polym.*, 59, 131-151.
- Scanlon, M.G., Zghal, M.C., 2001. Bread properties and crumb structure. *Food Research International* 34 (10), 841–864.
- Unklesbay, N., Unklesbay, K., Nahaisi, M., Krause, G., 1981. Thermal conductivity of white bread during convective heat processing. *Journal of Food Science* 47, 249–253.
- Sciarini, L. S., Pérez, G. T., de Lamballerie, M., León, A. E., & Ribotta, P. D. (2011). *Partial-Baking Process on Gluten-Free Bread: Impact of Hydrocolloid Addition*. *Food and Bioprocess Technology*, 5(5), 1724–1732. doi:10.1007/s11947-011-0529-3
- Selomulyo, V. O., & Zhou, W. (2007). *Frozen bread dough: Effects of freezing storage and dough improvers*. *Journal of Cereal Science*, 45(1), 1–17. doi:10.1016/j.jcs.2006.10.003
- Sharadanant, R., & Khan, K. (2003). Effect of hydrophilic gums on the quality of frozen dough: II. Bread characteristics. *Cereal Chemistry*, 80(6), 773e780.
- Shon, J., Yun, Y., Shin, M., Chin, K. B., & Eun, J.-B. (2009). *Effects of milk proteins and gums on quality of bread made from frozen dough*. *Journal of the Science of Food and Agriculture*, 89(8), 1407–1415.doi:10.1002/jsfa.3602
- Singh, J.; Kaur, L.; McCarthy, O. (2007).Factors influencing the physicochemical, morphological, thermal, and rheological properties of some chemically modified starches for food applications—A review. *Food Hydrocolloid.*, 21, 1-22.
- Stampfli, L., Nersten, B., 1995. Emulsifiers in bread making. *Food Chemistry* 52 (4), 353–360.
- Stauffer, C. E. (1993).Frozen dough production. *Advances in Baking Technology*. Kamel and Stauffer. New York.pp 88–106
- Tao, H., Zhang, B., Wu, F., Jin, Z., & Xu, X. (2016). *Effect of multiple freezing/thawing-modified wheat starch on dough properties and bread quality using a reconstitution system*. *Journal of Cereal Science*, 69, 132–137.doi:10.1016/j.jcs.2016.03.001
- Tharanathan, R.N. (2005). Starch—value addition by modification. *CRC. Cr. Rev. Food Sci.*, 45, 371-384.
- Thomas, D.; Atwell, W. (1999).*Starches: Practical guides for the food industry*. Eagan Press Handbook Series, AACC: USA, 35pp